

**What is claimed is:**

1. A method of immobilizing a protein onto a support comprising:
  - (i) attaching a ligand to a fusion protein comprising a cleavable intein under condition suitable for the cleavage of the intein and attachment of the ligand to the remaining protein to form a protein-ligand; and
  - (ii) immobilizing the protein-ligand onto a support that is functionalized with an affinity receptor.
2. The method according to claim 1 wherein the ligand is biotin and the affinity receptor is avidin.
3. The method according to claim 2 wherein the support is glass.
4. The method according to claim 3 wherein the fusion protein is expressed from the expression vector pTYB1.
5. The method according to claim 4 wherein the step of attaching the ligand comprises reacting the fusion protein with cysteine-biotin.
6. The method according to claim 5 wherein the glass is functionalized with avidin by reacting the glass surface with an epoxy silane compound and reacting the resulting surface with avidin.
7. The method according to claim 6 wherein the epoxy silane compound is glycidoxypipropyl trimethoxysilane.
8. The method according to claim 7 wherein avidin is streptavidin.
9. A method of preparing a protein array comprising the steps of

- (i) expressing a protein as a fusion protein comprising a cleavable intein and a binding domain downstream to the intein,
- (ii) contacting the expressed fusion protein with a substrate to which the binding domain binds,
- (iii) attaching a ligand to the fusion protein under condition suitable for cleavage of the intein and attachment of the ligand to the remaining protein to form a protein-ligand,
- (iv) immobilizing the protein-ligand onto a support that is functionalized with an affinity receptor.

10. The method according to claim 9 wherein the ligand is biotin and the affinity receptor is avidin.

11. The method according to claim 10 wherein the fusion protein is expressed from the expression vector pTYB1.

12. The method according to claim 11 wherein the substrate is a chitin column.

13. The method according to claim 12 wherein the step of attaching the ligand comprises adding cysteine-biotin to the chitin column.

14. The method according to claim 13 wherein the support is glass.

15. The method according to claim 14 wherein the affinity receptor is streptavidin.

16. The method according to claim 15 wherein immobilizing the protein-ligand comprises spotting the protein-ligand onto the support.

17. A protein array comprising protein immobilized onto a support functionalized with an affinity receptor wherein the protein is attached to a ligand at the C-terminus by a peptide bond.

18. The protein array according to claim 17 wherein the ligand is biotin and the affinity receptor is avidin.
19. The array according to claim 18 wherein the support is glass.
20. The protein array according to claim 19 wherein avidin is streptavidin.